

# MINUTES OF THE JUNE 2009 TELECONFERENCE OF THE NATIONAL HYDROGEN AND FUEL CELLS CODES & STANDARDS COORDINATING COMMITTEE

**MEETING DATE: June 3, 2009**

**FACILITATOR: Robert Wichert**

## 1. Roll Call - Robert Wichert

- [Participants](#) (8Kb PDF)

## 2 Review of Anti-Trust Guidelines - Karen Hall

[Antitrust Guidelines](#) (27Kb PDF)

## 3. Review of/Corrections to Draft Minutes of May 2009 Teleconference Meeting

Approved as written

## 4. DOE/HQ Update - Antonio Ruiz

Antonio provided an update. DOE HQ budget prioritization was completed. An additional line item was added to DOE's request for information analysis. Ongoing 2009 activities will be aligned with the highest priorities to bring the project to proper closure. 2009 money will extend to 2010 to enable existing contracts and work to continue through closure. Fuel Quality is a high priority. Scheduled workshops will continue, and pending funding opportunities, there may be others.

The budget request means: For 2010, the congressional marks may change things drastically; we have to work on plans for a budget that is supported by DOE, realizing things may change, and be ready to implement changes as they come.

Antonio attended GTR meeting last week in China. The implication of work in the US, while other countries have regulations for fuel cell vehicles, the US is looking at the GTRs for adoption for fuel cell vehicles. The meeting was promising, and it looks like things are moving along nicely. Technical experts have been aligned with work ongoing with SAE, OEMs, and national labs.

Mike Steele (GM): Requested more information on the Request for Information for combined heat and power.

Antonio: The intent is seeking solid input from industry for which direction the program should focus on for FY2010.

- [Request for Information DE-FOA-0000111](#) (32Kb PDF)

Rody Stephenson: Will the Technology Demonstration Program continue?

Antonio: It will as far as 09 funding can take it, but TV is in the same situation that C&S is.

Jim Ohi: International Conference on Hydrogen Safety, September 16-18. Hotel block is good until July 10th, 2009. Encourage planning now. Link: <http://conference.ing.unipi.it/ichs/>

Juana Williams (NIST): International work on fuel quality standard was mentioned as highest priority. Is there a list where priorities have been published?

Antonio: There is no list – other projects will continue as funding allows.

Antonio: Please get AMR comments submitted.

## 5. California Hydrogen Standards - John Mough

No update

## 6. Hydrogen Industry Panel on Codes (HIPOC) Activities

Mark Richards provided an update. There is an in person meeting in Chicago next week. HIPOC submitted NFPA 2 comments on Friday. The current effort is on ICC proposals. Modifications to the submittals will likely be made as they are discussed. Other items of discussions included fuel cell forklift fueling.

## 7. NFPA Activities - Marty Gresho / Paul May

Marty Gresho provided an update on NFPA2. NFPA 2 public proposal process has closed; approximately 60 proposals were submitted. They are primarily editorial, but not a lot of significant technical issues to be addressed.

ROP meeting will be August 17-21st. Given the low number of proposals, the meeting will likely be shortened.

NFPA 55 is now a consensus document and due out for publication by fall; it is important because it contains bulk H2 separation distances.

The NFPA 52 NITMAM will be heard at the meeting in Chicago on June 11th. The motion is an attempt to overrule the decision not be consistent with NFPA 55. HIPOC will support the motion.

Paul May added that if the NITMAM fails, and the table continues to disagree with NFPA 52, it will be handled with a band-aid points to NFPA 55.

Robert Wichert – NFPA 853 went through report on comments with ease. There was one committee comment received at the meeting and the vote has closed. The final committee decision should be available soon.

Paul May suggested that any issues be included in an ROP meeting in August.  
Robert Wichert – there was actually a separation issue that should be corrected.

## 8. ICC Activities - Darren Meyers

No report

Marty Gresho: Annual conference for the IFC will be Nov 4th-11th.

## 9. DOE / NREL Activities - Chad Blake

Chad Blake provided an update on tentative workshop schedule.

Month	Date	Location	Partner
July	17	Tampa, FL	Florida Fire Bureau, Jim Goodlow
August		San Antonio, TX	Steve Suthers, City of San Antonio, 210-207-3402; HARC may also play a role
September	?	Hartford, CT	Connecticut Hydrogen Fuel Cell Coalition, 860-291-8832, Paul Aresta
November	13	Jefferson Parish, LA	1/2 day

Jim Ohi provided an update on Fuel Quality activities.

There was a group meeting on Tuesday evening during the Annual Merit Review in Washington, DC.

They reviewed latest FC Testing results in preparation for June meeting.

JHFQTF conference call will be tomorrow and will cover continued preparation for the June meeting. Focus is on contaminants NH<sub>3</sub>, CO, Sulfur compounds for testing at labs – common MEAs from Gore will be provided through NREL. Combination testing will also be conducted.

ISO TC197 WG12 will meet in Vancouver on June 17th and 18th – FC Testing, Instrumentation, and FC Modeling work will be discussed in preparation for the Draft International Standard due this fall. We will present our approach for getting a draft international standard draft by end of FY09. This will identify critical tests required to finalize DIS. ANL continues modeling, for example anode gas recycling, to support DIS.

## 10. Report on IEC/TC105 Activities – Kelvin Hecht

### TC105 – Fuel Cell Technologies

Seoul, Korea Meetings

- June 8
  - Working Group 5 – Stationary Fuel Cells-Installation
  - Working Group 7 – Portable Fuel Cells
  - Working Group 8 – Micro Fuel Cells – Safety
- June 9
  - Working Group 2 – Fuel Cell Modules
  - Working Group 9 – Micro Fuel Cells – Performance
  - Working Group 10 – Micro Fuel Cells – Cartridge Interchangeability
- June 9-10
  - Working Group 3 – Stationary Fuel Cells – Safety
- June 11-12
  - TC105 Plenary

[www.fuelcellstandards.com](http://www.fuelcellstandards.com) May website activity

- Visits:5,046
- Pdf downloads: 348

## 11. Report on ISO/TC197 Activities – Glenn Scheffler / Jill Thompson

### ANSI-Accredited U.S. TAG for ISO/TC 197, *Hydrogen technologies*

- **Currently out for vote**
  - **ISO/CD 17268**, *Compressed hydrogen land vehicle fueling connection devices*  
U.S. TAG comments were due on May 5, 2009.  
During the U.S. TAG webconference on Monday, May 18, the consensus position was to vote “**Disapproved**.”  
will be submitting this vote.  
This ballot ends on June 16, 2009.

Next meeting will be Wednesday, October 14th, in Seoul, Korea. Working group meetings will be 12th and 13th. Please notify if you are planning to attend for Secretary notification.

## 12. NIST Activities – Juana Williams

The next WG teleconference is June 17th to discuss code and if it addressed wholesale and retail applications.

### **13. CSA America Activities – Julie Cairns/ Connie Bielawski**

**In publication department Tentative Interim Requirements - Anticipated release date June 2009**

- Compressed Hydrogen Dispensers (CSA America HGV 4.1)
- Hoses and Hose Assemblies for Compressed Hydrogen Dispensing Systems (CSA America HGV 4.2)
- Breakaway Devices for Hoses for Compressed Hydrogen Dispensing Systems (CSA America HGV 4.4)
- Priority and Sequencing Equipment for Compressed Hydrogen Dispensing Systems (CSA America HGV 4.5)
- Manually Operated Valves for Compressed Hydrogen Dispensing Systems (CSA America HGV 4.6)
- Automatic Pressure Operated Valves for Compressed Hydrogen Dispensing Systems (CSA America HGV 4.7)

#### **Fueling Station Compressor**

- Hydrogen Gas Vehicle Fueling Station Compressor (CSA America HGV 4.8)  
*[Review and comment June 2009]*

#### **Fuel System/Station**

- Compressed Hydrogen Dispenser System/Station (CSA America HGV 4.9)  
*[Review and comment July 2009]*

#### **Fueling verification**

- Compressed Hydrogen Dispensing Systems Fueling (CSA America HGV 4.3)  
*Anticipated December 2009 Publication]*

### **14. SAE Activities – Mike Steele / Glenn Scheffler**

Mike Steele provided an update. The May meetings have been cancelled. The next scheduled meetings are the week of 13 June 2009. Attendance will likely be light with OEM travel restrictions. They plan to update the group on the FQ work in ISO.

### **15. ASTM D.03 Activities -- Jackie Birdsall**

Jackie Button provided an update for D03.14: The test method for determination of total hydrocarbons went to ballot May 4th and it has not closed yet. The next D03.14 meeting is June 22 in Norfolk, Va. Also her name has changed to Jackie Button.

### **16. NHA Activities – Karen Hall / Geoff Bromaghim**

Karen Hall: The NHA is working with the Partnership for Advancing the Transition to Hydrogen (PATH). There will be a 1/2 day Codes & Standards workshop in India in August at the World Hydrogen Technologies Convention: [www.whtc2009.org/whtc2009](http://www.whtc2009.org/whtc2009)

Fuel Cell Safety Report – minutes are posted and up to date; please submit calendar or articles to Karen or Geoff for posting.

### **17. Report on USFCC Codes & Standards Priorities for 2009 – Sondra Ullman**

Sondra Ullman provided an update. The USFCC Codes and Standards Priority Matrix has remained essentially the same.

### **18. Open Discussion**

None

## **19. Next Meeting**

Wednesday July 1st, 2009